

## **CLEAN COPY OF PAGE 12 OF SPECIFICATION**

### **BRIEF DESCRIPTION OF THE DRAWINGS**

For a better understanding of the invention, reference is made to the drawings, which are to be taken in conjunction with the detailed specification to follow:

Figs. 1 and 2 show, respectively, calculated VSWR plots for a progressive distribution of line segment lengths for 20 and 80 segments according to the prior art, respectively;

Figs. 3 and 4 show, respectively, calculated VSWR plots for optimized an distribution of line segment lengths for 20 and 80 segments according to the present invention, respectively;

Figs. 5, 6 and 7 shown respectively, a calculated VSWR plots for a progressive distribution, and calculated VSWR and return loss plots for an optimized distribution of line lengths for a 614 foot, 31 segment transmission line with an elbow;

Figs. 8 and 9 show, respectively, measured VSWR and return loss for an optimized distribution of line lengths implementation of the transmission line of Figs. 6 and 7;

Fig. 10 shows a generic model according to the present invention for optimizing a segmented transmission line characteristic;

Figs. 11-12 show amplifications and preferred embodiments of the generic model shown in Fig. 10;

Fig. 13 shows a perspective view of an air-spaced, segmented, coaxial transmission line;

Fig. 14 shows a flowchart detailing a generic method according to the present invention for optimizing a segmented transmission line characteristic; and

Fig. 15 shows a flowchart detailing a more detailed flowchart representing preferred embodiments of the invention.